



UNITED STATES PATENT AND TRADEMARK OFFICE

[Signature]
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/800,487

03/15/2004

James McSwiggen

04-218 (400.148)

9362

20306 7590 02/22/2007
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP
300 S. WACKER DRIVE
32ND FLOOR
CHICAGO, IL 60606

EXAMINER

WOLLENBERGER, LOUIS V

ART UNIT

PAPER NUMBER

1635

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

3 MONTHS

02/22/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

BEST AVAILABLE COPY

Notice to Comply	Application No. 10/800487	Applicant(s) McSwiggen et al.	
	Examiner Louis V. Wollenberger	Art Unit 1635	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set in the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing Error Report."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the application.**
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:
 For Rules Interpretation and PatentIn Software, call (571) 272-2510
 For CRF Submission Help, call (571) 272-2501/2533.
PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY

Notice to Comply

CRF Sequence Listing

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth below or on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

In the instant case, Applicants have submitted a substitute CRF copy of the sequence listing in the reply filed on 9/28/06; however, the Office's STIC Biotechnology Systems Branch is unable to process the substitute CRF for the reasons given on the attached Raw Sequence Listing Error Report (dated 10/2/06). Thus, the Examiner is unable to search and examine the claims of the instant application.

Applicants are requested to resubmit the sequence listing in corrected form along with the necessary papers and statements.

For more information regarding the submission and correction of CRFs, Applicants may call the STIC-Biotech Help Desk at (571) 272-2510.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by

Art Unit: 1635

the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period.

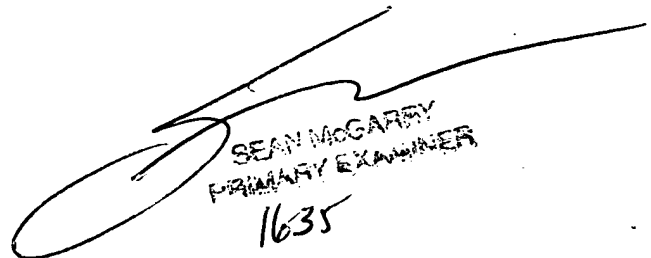
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis V. Wollenberger whose telephone number is 571-272-8144. The examiner can normally be reached on M-F, 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Schultz can be reached on (571)272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LVW
Examiner Art Unit 1635
February 7, 2007


SEAN MCGARRY
PRIMARY EXAMINER
1635

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/800,487-D

Source:

IPW/G

Date Processed by STIC:

10/2/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/800,487D

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003



IFW16

RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : Z:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.
 4 McSwiggen, James
 6 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Intercellular
 Adhesion
 7 Molecule (ICAM) Gene Expression Using Short Interfering Nucleic
 8 Acid (siNA)
 10 <130> FILE REFERENCE: 400/148 (MBHB04-218)
 12 <140> CURRENT APPLICATION NUMBER: US 10/800,487D
 13 <141> CURRENT FILING DATE: 2004-03-15
 15 <150> PRIOR APPLICATION NUMBER: US 10/757,803
 16 <151> PRIOR FILING DATE: 2004-01-15
 18 <150> PRIOR APPLICATION NUMBER: US 10/720,448
 19 <151> PRIOR FILING DATE: 2003-11-24
 21 <150> PRIOR APPLICATION NUMBER: US 10/693,059
 22 <151> PRIOR FILING DATE: 2003-10-23
 24 <150> PRIOR APPLICATION NUMBER: US 10/444,853
 25 <151> PRIOR FILING DATE: 2003-05-23
 27 <150> PRIOR APPLICATION NUMBER: US 10/427,160
 28 <151> PRIOR FILING DATE: 2003-04-30
 30 <150> PRIOR APPLICATION NUMBER: PCT/US03/05346
 31 <151> PRIOR FILING DATE: 2003-02-20
 33 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028
 34 <151> PRIOR FILING DATE: 2003-02-20
 36 <150> PRIOR APPLICATION NUMBER: US 60/358,580
 37 <151> PRIOR FILING DATE: 2002-02-20
 39 <150> PRIOR APPLICATION NUMBER: US 60/363,124
 40 <151> PRIOR FILING DATE: 2002-03-11
 42 <150> PRIOR APPLICATION NUMBER: US 60/386,782
 43 <151> PRIOR FILING DATE: 2002-06-06
 45 <150> PRIOR APPLICATION NUMBER: US 60/406,784
 46 <151> PRIOR FILING DATE: 2002-08-29
 48 <150> PRIOR APPLICATION NUMBER: US 60/408,378
 49 <151> PRIOR FILING DATE: 2002-09-05
 51 <150> PRIOR APPLICATION NUMBER: US 60/409,293
 52 <151> PRIOR FILING DATE: 2002-09-09
 54 <150> PRIOR APPLICATION NUMBER: US 60/440,129
 55 <151> PRIOR FILING DATE: 2003-01-15
 57 <150> PRIOR APPLICATION NUMBER: PCT/US02/15876
 58 <151> PRIOR FILING DATE: 2002-05-17
 60 <160> NUMBER OF SEQ ID NOS: 439
 62 <170> SOFTWARE: PatentIn version 3.3
 64 <210> SEQ ID NO: 1
 65 <211> LENGTH: 19
 66 <212> TYPE: RNA

Does Not Comply
 Corrected Diskette Needed

(page 6) ↻

RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

```

67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
72 <400> SEQUENCE: 1
73 gccccagucg acgcugagc 19
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 19
78 <212> TYPE: RNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
84 <400> SEQUENCE: 2
85 cuccucugcu acucagagu 19
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 19
90 <212> TYPE: RNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
96 <400> SEQUENCE: 3
97 uugcaaccuc agccucgcu 19
100 <210> SEQ ID NO: 4
101 <211> LENGTH: 19
102 <212> TYPE: RNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
108 <400> SEQUENCE: 4
109 uauggcuccc agcagcccc 19
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 19
114 <212> TYPE: RNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
120 <400> SEQUENCE: 5
121 ccggccccgcg cugccccga 19
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 19
126 <212> TYPE: RNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
132 <400> SEQUENCE: 6
133 acuccugguc cugcucggg 19
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 19
138 <212> TYPE: RNA
139 <213> ORGANISM: Artificial Sequence

```


RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

```

141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
144 <400> SEQUENCE: 7
145 ggcucuguuc ccaggaccu 19
148 <210> SEQ ID NO: 8
149 <211> LENGTH: 19
150 <212> TYPE: RNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
156 <400> SEQUENCE: 8
157 uggcaaugcc cagacauca 19
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 19
162 <212> TYPE: RNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
168 <400> SEQUENCE: 9
169 uguguccccc ucaaaaaguc 19
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 19
174 <212> TYPE: RNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
180 <400> SEQUENCE: 10
181 cauccugccc cggggaggc 19
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 19
186 <212> TYPE: RNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192 <400> SEQUENCE: 11
193 cuccgugcug gugacaugc 19
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 19
198 <212> TYPE: RNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
204 <400> SEQUENCE: 12
205 cagcaccucc ugugaccag 19
208 <210> SEQ ID NO: 13
209 <211> LENGTH: 19
210 <212> TYPE: RNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

```

214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
216 <400> SEQUENCE: 13
217 gccaaguug uugggcaua 19
220 <210> SEQ ID NO: 14
221 <211> LENGTH: 19
222 <212> TYPE: RNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
228 <400> SEQUENCE: 14
229 agagaccccg uugccuaaa 19
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 19
234 <212> TYPE: RNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
240 <400> SEQUENCE: 15
241 aaaggaguug cuccugccu 19
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 19
246 <212> TYPE: RNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
252 <400> SEQUENCE: 16
253 ugggaacaac cggaaggug 19
256 <210> SEQ ID NO: 17
257 <211> LENGTH: 19
258 <212> TYPE: RNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
264 <400> SEQUENCE: 17
265 guaugaacug agcaaugug 19
268 <210> SEQ ID NO: 18
269 <211> LENGTH: 19
270 <212> TYPE: RNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
276 <400> SEQUENCE: 18
277 gcaagaagau agccaacca 19
280 <210> SEQ ID NO: 19
281 <211> LENGTH: 19
282 <212> TYPE: RNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

```

RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

```

288 <400> SEQUENCE: 19
289 aaugugcuau ucaaacugc 19
292 <210> SEQ ID NO: 20
293 <211> LENGTH: 19
294 <212> TYPE: RNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
300 <400> SEQUENCE: 20
301 cccugauggg cagucaaca 19
304 <210> SEQ ID NO: 21
305 <211> LENGTH: 19
306 <212> TYPE: RNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
312 <400> SEQUENCE: 21
313 agcuaaaacc uuccucacc 19
316 <210> SEQ ID NO: 22
317 <211> LENGTH: 19
318 <212> TYPE: RNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
324 <400> SEQUENCE: 22
325 cguguacugg acuccagaa 19
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 19
330 <212> TYPE: RNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
336 <400> SEQUENCE: 23
337 acgggguggaa cuggcaccc 19
340 <210> SEQ ID NO: 24
341 <211> LENGTH: 19
342 <212> TYPE: RNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
348 <400> SEQUENCE: 24
349 ccuccccucu uggcagcca 19
352 <210> SEQ ID NO: 25
353 <211> LENGTH: 19
354 <212> TYPE: RNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
360 <400> SEQUENCE: 25

```

Page 6

<400> 421

Which ribonucleotide does "N" represent?

-Invalid response

See item # 13 on
error summary
sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/800,487D

DATE: 10/02/2006
TIME: 14:13:44

Input Set : E:\04-218 REVSeqList.txt
Output Set: N:\CRF4\10022006\J800487D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:421; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:422; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:423; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:424; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:425; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:426; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:427; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:428; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:429; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:44

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

L:8118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:421 after pos.:0
L:8150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422 after pos.:0
L:8178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:423 after pos.:0
L:8211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:424 after pos.:0
L:8244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:425 after pos.:0
L:8276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:426 after pos.:0
L:8309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:427 after pos.:0
L:8341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:428 after pos.:0
L:8374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:429 after pos.:0

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.